## **ABSTRACT**

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An extruder system includes an extruder for axially extruding a rubber or plastic material in a barrel by rotation of an extrusion screw arranged in the barrel, and a gear pump driven by a rotational force for rotating the extrusion screw so that a predetermined amount of the extruded material is discharged by engagement of gears. The gear pump includes a driving pinion arranged coaxially to the extrusion screw and fixedly secured to a tip end of the extrusion screw, a driven pinion engaged with, and driven by the driving pinion and rotatable about a rotational shaft that is parallel to a rotational shaft of the extrusion screw, and a gear casing accommodating these pinions therein. The gear casing includes side plates arranged on both axial sides of the pinions and extending perpendicularly to the rotational shaft of the extrusion screw, and a casing body arranged between the side plates and enclosing a space on a radially outer side of the pinions. The rotational shaft of the driven pinion is fixedly secured to the side plates. The side plates includes a suction side plate situated adjacent to the extrusion screw and a discharge side plate situated remote from the extrusion screw. The suction side plate has a suction port arranged opposite to that side of engagement region between the driving pinion and the driven pinion, where their teeth are being disengaged from each other. The discharge side plate has a discharge port arranged opposite to that side of engagement region between the driving pinion and the driven pinion, where their teeth are being engaged from each other. The suction port and the discharge port are maintained out of an axial communication with each other by the pinions.